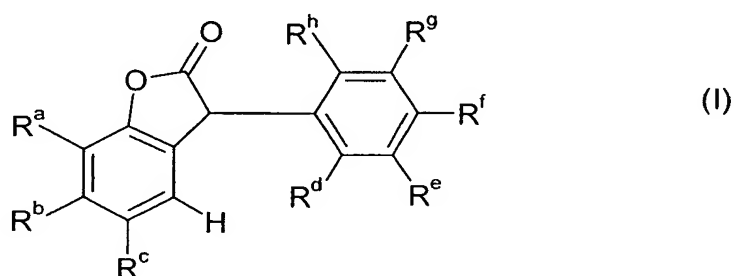
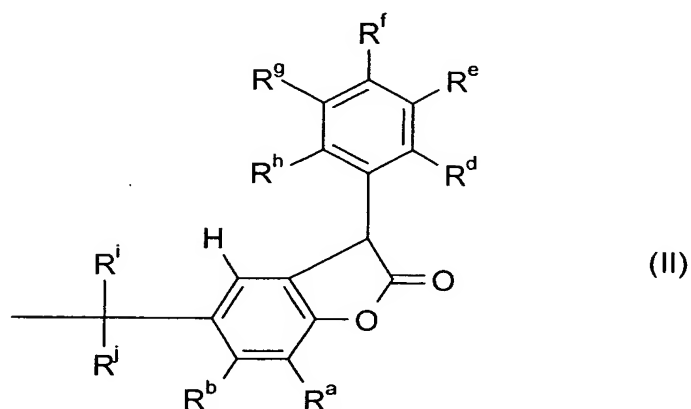


Patent Claims:

1. A high-molecular-weight, crosslinked polyvinyl butyral obtainable by crosslinking a polyvinyl butyral with benzofuranone and/or with at least one derivative of the same as crosslinking reagent.
2. The polyvinyl butyral as claimed in claim 1, wherein the crosslinking agent used comprises compounds of the formula (I)



where R^a , R^b , R^d , R^e , R^f , R^g and R^h independently of one another are hydrogen, hydroxy, C_1 - C_{18} -alkyl, unsubstituted or C_1 - C_4 -alkyl-mono-, -di-, or -trisubstituted phenyl, C_7 - C_9 -phenylalkyl, unsubstituted or C_1 - C_4 -alkyl-mono-, -di-, or -tri substituted C_5 - C_{12} -cycloalkyl, or C_1 - C_{18} -alkoxy, and R^c is as defined above for R^a , R^b , R^d , R^e , R^f , R^g and R^h or is a radical of the formula (II)



where R^a , R^b , R^d , R^e , R^f , R^g and R^h are as defined above and R^i and R^j independently of one another are hydrogen or C_1 - C_4 -alkyl, at least two of the radicals R^d , R^e , R^f , R^g and R^h being hydrogen.

3. The polyvinyl butyral as claimed in claim 1 or 2, wherein the crosslinking reagents used comprise compounds of the formula (I), where R^b is hydrogen, and/or R^d - R^h are hydrogen, and/or R^a and R^c are C_1 - C_{18} -alkyl, in particular tert-butyl, or unsubstituted or C_1 - C_4 -alkyl-mono-, -di-, or -trisubstituted phenyl.

4. The polyvinyl butyral as claimed in claim 1, 2, or 3, wherein the crosslinking reagents used comprise compounds of the formula (I), where R^c is a radical of the formula (II) and R^i and R^j are methyl.

5. The polyvinyl butyral as claimed in at least one of the preceding claims, which comprises plasticizers.

6. A process for preparing a polyvinyl butyral as claimed in at least one of the preceding claims, which comprises adding the crosslinking reagent, and also, where appropriate, the plasticizer to the polyvinyl butyral, where appropriate homogenizing the mixture, and crosslinking thermally at temperatures in the range from 80 to 280°C.

7. The process as claimed in claim 6, wherein the crosslinking is catalyzed by addition of alkaline or acidic additives.

8. The process as claimed in claim 6 or 7, wherein the thermal crosslinking is carried out in an extruder.

9. A molding composition comprising the polyvinyl butyral as claimed in at least one of claims 1 to 5.

10. A film comprising the polyvinyl butyral as claimed in at least one of claims 1 to 5.
11. The use of the film as claimed in claim 10 for producing laminated safety glass.